Setting Clock Time

1. Enter the programming mode.
2. Press button #4 repeatedly until the 88:88 icon begins to flash.
3. Press button #1 to select and enter clock setting mode.
4. Press button #1 to scroll through 'hour', 'minute', 'am/pm' settings. The selected item will be flashing.
5. Press button #2 to adjust the setting of the selected item.
6. Press button #4 to save setting and exit, or press button #3 to abort.

Setting Alarm Clock

1. Enter the programming mode.
2. Press button #4 repeatedly until icon begins to flash.
3. Press button #1 to select and enter alarm clock setting mode
4. Press button #1 to scroll through 'alarm on/off', 'hour', 'minute', 'am/pm' settings. The selected item will be flashing.
5. Press button #2 to adjust the setting of the selected item.
6. Press button #4 to save setting and exit, or press button #3 to abort.

FCC Notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

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SCORPIO

SR-i500

FM 2-Way Security System

INSTALLATION MANUAL AND USER'S GUIDE

Standard Features

- 2-Way FM Transceiver
- Alphanumeric LCD display with backlight
- Ultra low power drain MCM
- Built-in Analog Devices ADXL202 accelerometer
- Ignition protection
- Range Confirmation Signal (RCS)
- Remote sensor control
- Battery safeguard with “sleep mode”
- Clock w/alarm
- Violation display with time stamp
- Passive arming
- Selectable arming / disarming
- Automatic reset
- Flashing lights with memory display
- Long range paging transmitter
- Programmable multi-tone siren
- Selectable siren duration
- Arming confirmation
- Low battery indication
- Remote panic feature
- Soft chirp arming

Optional Accessories

- **Perimeter sensor** – A miniature multi stage microwave sensor that detects motion in mass around the motorcycle, and uniquely protects its parts and accessories. Detects any attempt to tamper with saddlebags, luggage or accessories.

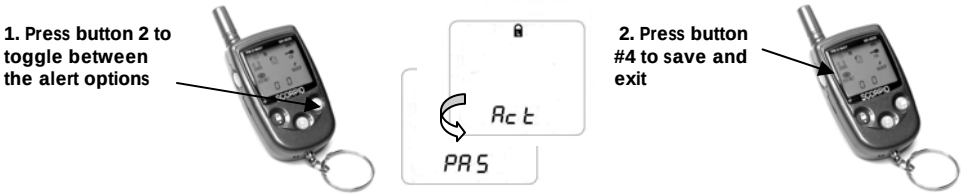
- **Ignition disable and anti-hijack kit**- Allows remote disabling of the motorcycle’s electrical system, should someone force you off your bike. Also prevents the engine from being started when the system is armed.

- **Back-up battery Transmitter**–Built in back up power capacitors with voltage sensing circuitry will ensure operation of the paging system even if wires are cut or battery is disconnected.

- **Factory Connector Kits**–OEM style connectors that simply plug into the motorcycle’s factory wiring harness. Connector kits are available for select motorcycle models.

Selecting Auto/Manual Arming

Enter the programming mode. Scroll to the icon and Press Button #1 to enter the arming selection screen. The LCD will display the current setting (**[Act]** or **[PAS]**) and the siren will chirp two or three times. To program follow these steps:

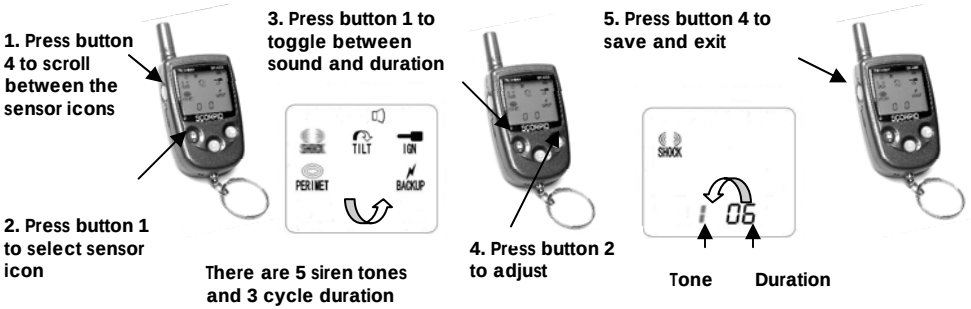


When entering the arming program mode, the siren and turn signals will confirm the current mode

- **Manual arming- siren chirps 2 times, lights flash 2 times**
- **Auto arming- siren chirps 3 times, lights flash 3 times (In this mode the system will automatically arm itself 60 seconds after the ignition is turned off)**

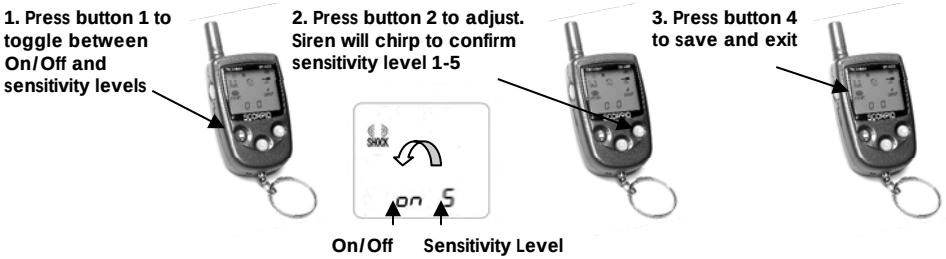
Selecting Siren Tone and Alarm Duration

Enter the programming mode. Scroll to the icon and Press Button #1 to select. The screen will display all of the sensor icons. To program follow these steps:


1. Press button 4 to scroll between the sensor icons
2. Press button 1 to select sensor icon
3. Press button 1 to toggle between sound and duration
SHOCK
TILT
IGN
PERIMET
BACKUP
4. Press button 2 to adjust
5. Press button 4 to save and exit
SHOCK
06
Tone
Duration
There are 5 siren tones and 3 cycle duration settings for ach sensor

Adjusting the ADL202 Accelerometer (Impact/Shock) Sensor

Enter the programming mode. Scroll to the SHOCK icon and press Button #1 to select. The screen will display the current shock setting, and the siren will chirp 1-5 times to confirm sensitivity level. To program follow these steps:


1. Press button 1 to toggle between On/Off and sensitivity levels
2. Press button 2 to adjust. Siren will chirp to confirm sensitivity level 1-5
SHOCK
on 5
3. Press button 4 to save and exit
On/Off
Sensitivity Level

To test sensitivity bump motorcycle while in sensitivity adjustment mode, a siren chirp will indicate an alarm trigger

Programming Instructions

There are two types of programming mode:

1) Programming the Transceiver- To program the transceiver the MCM does not have to be installed or be within range. The programmable modes for the Transceiver are:
   - Transceiver Alert Type (Audible/Silent Vibrate).
   - Alarm Clock.
   - Clock.

2) Programming the MCM- To program the MCM the system must be **installed, with in range, and in the disarmed mode.** The programmable modes for the MCM are:
   - Auto/Manual Arming.
   - Siren Tones and Siren Duration.
   - Adjusting ADL202 Accelerometer (impact/shock sensor).

Entering Programming Mode

Follow the steps below to enter the programming mode:

1. Press button 4 twice to enter programming mode

2. Available programmable options will be displayed. The selected Icon will flash

3. Press button 4 repeatedly to scroll though the programmable icons

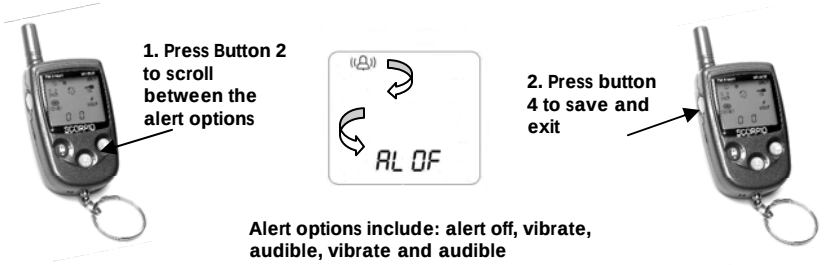
NOTE: Press button 3 to exit without changing the setting or saving

4. Press button 1 to select icon and to begin programming

Note. At any time during programming press button # 3 to exit without saving and return to the main screen

Selecting Transceiver Alert Type (Audible/Silent Vibrate)

1. Enter programming mode. The icon will begin to flash, press button #1 to select. The LCD will display the current settings. To program follow these steps:



1. Press Button 2 to scroll between the alert options

2. Press button 4 to save and exit

Alert options include: alert off, vibrate, audible, vibrate and audible

Components List

Remote Transceiver

MCM (Main Control Module)

Accessory Harness

Generic Instillation Kit (GEN-1)

Main Harness (HAR-1)

Planning the Installation

It is very important that before starting the installation of the security system, you carefully read the installation instructions and spend time planning the installation. By planning ahead you will be able to select the best approach in placing, securing and wiring the system to your specific motorcycle. Although the installation is not difficult, there are a number of steps that must be taken for the system to operate properly. We suggest the following steps:

1. Check that your motorcycle battery is fully charged and that all electrical circuits are in good working condition.
2. Check the layout and construction of the motorcycle to decide what space is available to place components.
3. Verify that no moving parts interfere with the components or their wires.
4. Do not route wires near sharp edges, which could cause a short.
5. Do not mount components near extreme heat areas such as exhaust pipes etc.
6. Allow at least an inch or two of slack at all connection points to reduce the chance that a connection will break apart due to vibration.
7 Do not use a drill. Mount the components with the provided Velcro and cable ties.

Mounting the Components

Select a suitable location under the seat or in a side cover. Mount the MCM using Velcro or cable ties. Make sure that it is not exposed or easily reached.

Note: Although the system will work in any position or mounting bangle, try to avoid placing the MCM with the bell of the siren facing toward either side of the bike. This may reduce sensitivity

Routing the Antenna Wire

The MCM includes an 18" antenna wire. The first 12" is a coaxial wire; the remaining 6" is the actual antenna wire. When routing, try to avoid running the antenna along or near metal. For best performance, try to have at least a portion of the antenna wire exposed.

Wire Connections

The MCM is equipped with two connectors. One is for the main harness (HAR-1) and the other is for the optional accessories.

Accessory Harness

Plug in the accessory harness to the matching connector on the MCM. Note: each one of the connectors on the accessory harness is unique and can only be connected into the correct corresponding accessory. If no options are being used, plug in the supplied dust cover.

Main Harness

If the optional factory connector kit is being used, please disregard this section of the instructions and refer to the instructions that were supplied with the factory connector kit.

The main harness consists of two harnesses. One is labeled (HAR-1) and the second is labeled (GEN-1). Plug in the white 4 pin connector from the (HAR-1) into the matching 4 pin connector from the (GEN-1). The (HAR-1) also has a waterproof connector that plugs into the MCM. The wires should be connected as follows:

HAR-1
Black wire with fuse and ring terminal – To battery Positive (+).

GEN-1
Black wire – To ground (-).
Grey wire – To turn signal power wire (Left).
Grey wire – To turn signal power wire (Right).
Orange wire – To tail light wire or any other wire that is hot (+) when ignition is "ON" (NOTE: this is an input to the alarm this connection is not designed to flash the tail light).

Note: When the main harness (HAR-1) is plugged in, the siren should chirp and turn signals should flash twice. If the siren dose not chirp; check the fuse, and battery (+) and ground (-) connections.

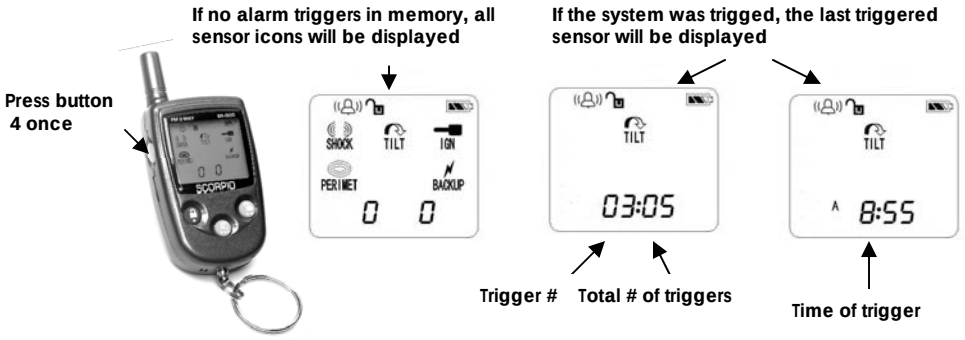
If the turn signal lights do not flash, make sure that the Grey wires are connected to the turn signal power (+) wires. Connecting these wires incorrectly may damage the system.

Color Codes:

	Ground (-)	Tail Light	Left Turn Signal	Right Turn Signal
Honda	Green wire	Brown wire	Orange wire	Blue wire
Kawasaki	Black wire	Red wire	Green wire	Grey wire
Suzuki	Black/White	Brown wire	Green or Black	Grey wire
Yamaha	Black wire	Blue wire	Green wire	Brown wire
Harley Davidson	Black wire	Blue wire	Brown wire	Purple wire

Checking Motorcycle Status and Violation Display with Time Stamp

1. Press button #4. The back light and the memory screen will be displayed. If the alarm was not triggered, all the sensor icons will come on and the # 0 0 will be displayed.
2. If there was an alarm trigger, the last triggered sensor will flash. Press button #4 repeatedly to scroll through all the triggered sensors in the Transceiver's memory.
3. The alternating numeric display shows the current trigger, numbering of triggers in memory, and the time the trigger occurred. For Example: TILT [03 05] + [A 8:55] means the tilt sensor was triggered. It was the 3rd sensor violated out of a total of 5 alarm triggers and the event occurred at 8:55am.
4. Press button #3 to exit.
5. To clear memory, press and hold down button #3 for 2 seconds.



Press button 4 repeatedly to scroll though the trigger memory
Pres button 3 to exit and clear.
Or, press and hold button 3 for 2 seconds to erase memory.

Encoding a Transceiver

Note: Transceivers are programmed from the factory. Encoding is only necessary should the Transceiver looses its code and will not arm or disarm the security system.

1. Plug in the MCM, the siren will chirp 2 times and the lights will flash 2 times. Within 6 seconds turn ignition switch "ON" and "OFF" 3 times.
2. If the sequence is done correctly and within the time allowed , the siren will chirp 2 times and the lights will flash an additional 2 times to confirm that the system is in "Learn Mode"
3. Press and hold button # 1 for 5 seconds, system will chirp 2 times and the lights will flash 2 times to indicate that the MCM has learned the code.
4. The Transceiver echoes 4 chirps and the LCD displays [**LErn donE]** to confirm that the Transceiver is encoded.
5. Turn ignition "ON" and "OFF" to exit "Learn Mode"

Sensor Memory Display

1. When the system is disarmed the turn signals will flash to indicate if there has been an alarm trigger. The lights will flash once to indicate that the system has been disarmed, additional flashes indicate that the following trigger has occurred:

   1 flash then 1 additional flash = Shock Trigger
   1 flash then 2 additional flashes = Tilt Trigger
   1 flash then 3 additional flashes = Perimeter Sensor Trigger
   1 flash then 5 additional flashes = Ignition Trigger

RCS (Range Confirmation Signal)

1. If the Transceiver is within range of the MCM the LCD displays icon
2. If the Transceiver does not receive the RCS signal the icon will not appear.

Transceiver Battery Status

1. The LCD will display 3 different icons to show the Transceivers battery status.

Motorcycle Battery Status

1. When the voltage on the motorcycle battery drops below 11.2 volts The LCD displays icon.

Battery Safeguard with "Sleep Mode"

1. If the alarm is armed for more than 30 days, it will automatically disable the MCM's receiver. In this mode the Transceiver will no longer be able to operate the system. Note: In this mode, the system is still armed and protecting the bike.
2. To disarm, trigger the alarm, and press button #2.

NOTE: If the optional perimeter sensor is being used and the alarm is armed for more than 10 days the system will automatically disable the perimeter sensor.

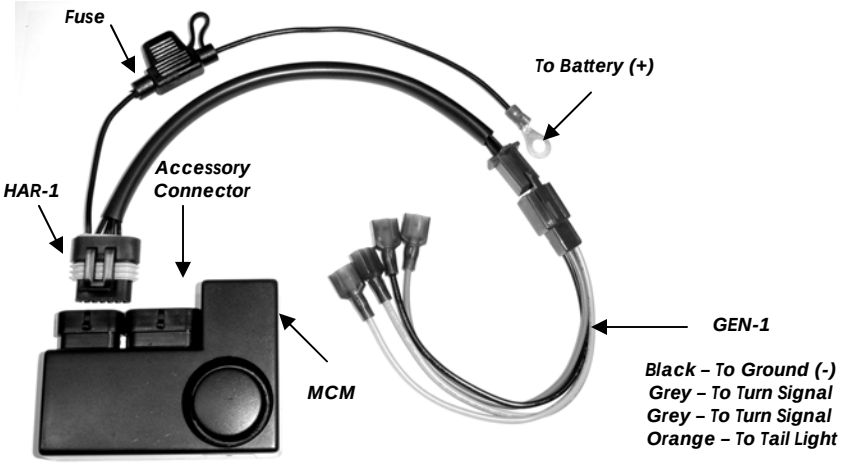
Locking the Transceiver's buttons

1. To "lock", press button #4 for 2 sec. The Transceiver will beep and buttons will lock
2. To "unlock", press button #4 for 2 sec. The Transceiver will beep and buttons will unlock.

Turning the Transceiver On/Off

1. To turn "off", press button #4 for 4 seconds. The Transceiver will beep two times to indicate that the unit has been turned "off".
2. To turn "on", press button #4 for 4 seconds. The Transceiver will beep two times to indicate that the unit is turned back "on".

Note: When the Transceiver is in the "Off" mode the clock will still be displayed

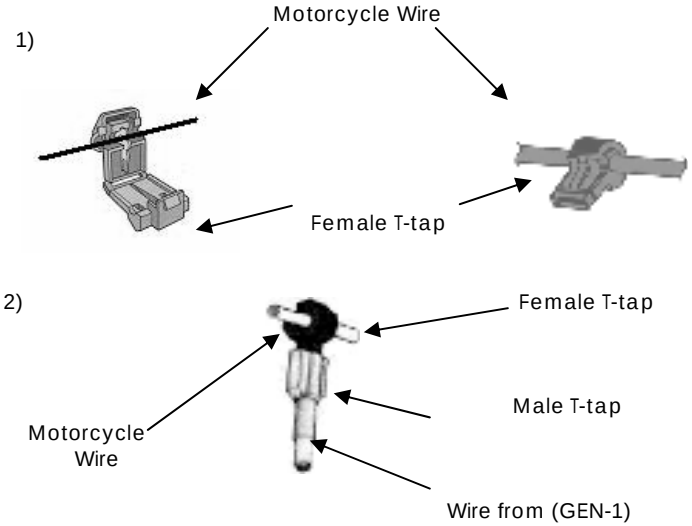


Note: Connect the (HAR-1) harness to the MCM only after installation is completed.

If the battery is to be removed, disconnect this connector first. Reconnect only after battery terminals are reconnected.

Using the T-tap Connectors

1) Place female T-tap connector over wire to be tapped, close and squeeze until it snaps close. 2) Now slip male T-tap connector over hinged end of the female connector to make a connection.



Operating Instructions

Arm

1. Press button #1, siren chirps 3 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 3 chirps and the LCD displays and icons.

Disarm

1. Press button #2, siren chirps 1 time and lights flash 1 time.
2. The Transceiver echoes 1 chirp and the LCD displays icon.

Arming Without Perimeter Sensor (optional)

1. Press button #3, siren chirps 4 times and turn signal lights flash 1 time.
2. The Transceiver echoes 4 chirps and the LCD displays , and icons.
3. The system is armed but the Perimeter Sensor is disabled.

Arming Without Siren / Paging Only

1. Press buttons #1 and #3 at the same time, siren chirps 5 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 5 chirps and the LCD displays , and icons.
3. The system is armed but the siren and turn signal lights are disabled for a silent paging only alert.

Arming Without Siren or Perimeter Sensor (optional) / Paging Only

1. Press buttons #2 and #3 at the same time, siren chirps 6 times and the turn signal lights flash 1 time.
2. The Transceiver echoes 6 chirps and the LCD displays , , and icons.
3. The system is armed but the siren, turn signal lights and perimeter sensor are disabled.

Panic / Stop Trigger

1. When system is armed press button #3 for Panic feature.
2. Pressing button #3 during an alarm trigger stops the alarm cycle but keeps the system armed.

Alarm Triggers

When the system is triggered, the siren will sound and the turn signal lights will flash. The Transceiver's LCD will display the following massages:

1. If bike is bumped, the LCD displays SHOCK icon.
2. If the bike is tilted, the LCD displays TILT icon.
3. If the ignition switch is turned on or tampered with, the LCD displays IGN Icon.

4. If the perimeter sensor triggers a full alarm cycle, the LCD displays PERIMET icon. (Note: The turn signal lights will not flash for a perimeter sensor trigger).
5. With the optional back up system installed, the LCD displays BACKUP icon if the main harness or battery power supply is disconnected. The MCM will still continue to operate and transmit from its internal power source.
6. The Transceiver will continue to flash the triggered icon until any button is pressed.

Note: The Transceiver will sound a unique tone to correspond with the triggered sensor

Remote Transceiver Icons and Massage Displays